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COMMERCIAL FERTILIZERS

Inspection report

1971

J. GORDON HANNA

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COMMERCIAL FERTILIZERS INSPECTION REPORT

1971

J. Gordon Hanna, Chief Chemist

Listed in this report for 1971 are the manufacturers' names, the number of samples of the products of each manufacturer collected, the number of these samples found deficient and the ratios of the percentages of nitrogen, phosphoric acid, potash, secondary and minor elements found to the percentages guaranteed. Results of 1140 samples of fertilizer produced by 117 manufacturers are summarized. A table of the tonnage sold during the period between July 1, 1970 and June 30, 1971 is included.

Analyses were made by Messrs. R. A. Botsford, S. Christie, S. P. Squires, W. Glowa, R. E. West, and Miss H. Kocaba. Inspection and sampling were by Mr. R. R. Nichols.

COMPLIANCE OF 1971 FERTILIZER SAMPLES WITH GUARANTEES

Manufacturer	No. of Samples	No. of guarantees		Samples deficient		Average % of claims	
		N	P ₂ O ₅ +K ₂ O total	N	P ₂ O ₅ +K ₂ O	N	P ₂ O ₅ +K ₂ O
Agrico Chemical Co.	89	77	156	11	20	102.5	106.5
Agricultural Products Co., Inc.	9	9	18	0	1	107.6	108.9
Agricultural Supply Co.	1	1	2	0	0	108.5	118.6
Agriform International Chemicals, Inc.	2	2	4	0	0	105.8	131.1
Agway, Inc.	64	49	117	2	9	110.5	108.9
American Cyanamid Co.	4	4	0	1	-	98.3	-----
American Fertilizer Co.	4	1	2	0	1	100.2	90.2
Armour Agricultural Chemicals Co.	1	0	2	-	1	-----	93.5
Asgrow-Mandeville Co.	11	11	22	4	2	102.7	120.5
Atlas Fish Fertilizer Co.	1	1	2	0	0	107.2	125.5
H. J. Baker & Bros.	2	0	0	-	-	-----	-----
Baker Castor Oil Co.	4	0	0	-	-	-----	-----
The Bartlett Tree Expert Co.	1	1	2	0	1	97.7	92.3
Black Leaf Products Co.	4	4	8	0	0	105.1	105.5
Black Magic, Inc.	1	1	2	0	0	98.8	138.3
Bonide Chemical Co., Inc.	1	1	2	0	0	108.2	108.2
Boyle Midway, Inc.	1	1	2	0	0	111.0	110.0
Brookside Nurseries, Inc.	9	9	14	0	0	111.8	121.2
Cadwell & Jones, Inc.	33	30	57	2	10	102.4	111.2
Canadian Industries Limited	2	2	0	0	-	100.8	-----
Peter Cascio Nursery, Inc.	3	3	6	1	0	97.2	108.7
Central Farmers Fertilizer Co.	1	1	0	0	-	101.2	-----
Chamberlin & Barclay, Inc.	7	4	12	2	3	105.0	119.2
Chevron Chemical Co.	30	30	58	0	3	103.6	107.4
Chilean Nitrate Sales Corp.	7	7	1	0	0	100.0	100.0
Clinton Nursery Products, Inc.	1	1	2	0	0	107.5	106.9

Corenco Corp.	56	49	93	142	2	7	111.5	116.5
Country Squire Fertilizers	1	1	2	3	0	0	101.2	124.8
The Danbury Garden Center	1	1	2	3	1	0	84.2	117.9
The Davey Tree Expert Co.	6	6	12	18	2	0	103.7	145.8
Diamond Shamrock Chemical Co.	2	2	4	6	0	0	125.6	135.2
E. I. duPont de Nemours & Co.	2	2	0	2	0	-	101.9	-----
Elanco Products Co.	6	6	12	18	0	1	108.4	103.9
The Espoma Co.	13	13	26	39	0	1	119.6	116.4
Estate Fertilizer Co.	1	1	2	3	0	0	111.8	109.0
Leon Ezzell, Inc.	4	4	8	12	1	1	112.9	110.2
Faesly & Besthoff, Inc.	33	29	55	84	2	1	124.6	125.3
Farmingdale Garden Laboratories, Inc.	3	3	5	8	0	1	122.2	111.1
Federal Chemical Co.	17	17	33	50	4	5	107.9	112.0
The Fer-Mel Corp.	15	15	24	39	1	1	103.2	101.1
The Fourniers Nurseries	2	2	4	6	2	2	87.5	101.0
Free Flow Fertilizer Co.	1	1	2	3	0	0	118.4	124.2
Garfield Williamson, Inc.	1	1	2	3	0	0	100.8	107.8
Glen Terrace Nurseries, Inc.	1	1	2	3	0	0	105.6	96.4
Gouldard-Olena, Inc.	1	1	2	3	0	0	101.7	108.6
W. R. Grace & Co.	2	1	1	2	0	0	100.4	99.0
Grand Union Co.	2	2	4	6	0	1	112.6	101.9
Gransco Products Limited	1	1	2	3	0	0	131.2	138.7
The Great Atlantic & Pacific Tea Co.	11	11	21	32	0	1	111.8	128.4
Greenlife Products Co., Inc.	4	4	8	12	2	4	102.3	71.6
Green Ribbon Product Co.	1	1	2	3	0	0	95.2	100.8
Gro-Fast Fertilizer Associates	1	1	2	3	0	1	98.8	96.8
Halstead Distributing Co.	5	5	10	15	0	1	115.8	101.8
The Charles C. Hart Seed Co.	9	9	19	27	0	1	114.4	107.5

Manufacturer	No. of Samples	No. of guarantees		Samples deficient		Average % of claims	
		N	P ₂ O ₅ +K ₂ O total	N	P ₂ O ₅ +K ₂ O	N	P ₂ O ₅ +K ₂ O
Heritage House Products	18	18	36	0	3	107.4	111.0
A. H. Hoffman, Inc.	15	15	29	1	2	120.7	112.6
Hydroponic Chemical Co., Inc.	1	1	2	0	0	114.3	125.0
The Hy-Trous Corp.	2	2	4	0	0	119.0	145.8
International Minerals & Chemical Corp.							
Kerr-McGee Chemical Corp.	117	0	2	-	0	----	102.5
Koos, Inc.	5	96	188	11	34	104.1	105.2
E. J. Korvette	7	5	9	1	3	147.5	127.7
		7	14	0	0	114.0	122.1
Lebanon Chemical Corp.	11	11	19	1	4	119.8	115.4
Leslie Agriform Corp.	1	1	2	0	0	101.2	119.7
Lewis International Co.	1	1	2	0	0	112.0	149.0
The Liberty Fertilizer Group	3	3	6	0	2	105.6	98.2
Limestone Products Corp.	1	1	2	1	1	92.8	93.3
Loft's Pedigreed Seed, Inc.	2	2	2	0	0	172.1	123.5
Luzerne Fertilizer Co.	3	3	6	0	0	109.9	106.1
McArdles Seed Co.	2	2	4	1	0	95.8	226.0
Nassau Garden, Inc.	19	19	38	1	0	114.5	124.2
Natural Plant Food Co., Inc.	3	3	6	0	0	90.8	105.1
New Plant Life Division	1	1	2	0	0	128.0	179.5
Old Deerfield Fertilizer Co.	4	4	8	0	2	107.3	94.7
Old Fox Agricultural Sales, Inc.	44	38	83	10	19	103.8	111.6
Olin Corp.	3	3	5	0	0	100.4	115.1
Organic Compost Corp. of Penna.	13	13	26	0	0	139.8	168.7
Patco Products, Inc.	4	4	8	0	0	107.0	112.0
Pennsylvania Dutch Fertilizer Co.	7	7	14	0	2	111.2	110.2
Perk-Up Products Co.	3	3	6	0	3	103.6	98.5

Robert B. Peters Co., Inc.	1	1	2	3	0	0	99.0	99.8
Plantabbs Corp.	4	4	8	12	0	0	107.4	112.8
Frank Policastro & Sons, Inc.	2	2	4	6	1	0	88.7	103.3
Proen Products Co.	2	2	4	6	0	0	156.9	122.0
Professional Turf Products	3	3	6	9	1	0	104.8	156.8
Ralston Purina Co.	1	1	2	3	0	0	104.8	117.3
Ra-Pid-Gro Corp.	1	1	2	3	0	0	102.3	99.5
Relko, Inc.	3	3	6	9	0	1	122.7	152.0
Ross Daniels, Inc.	6	6	12	18	0	0	142.7	117.8
Ruhms Phosphate & Chemical Co.	1	0	1	1	-	0	-----	99.4
Sanford Seed Co.	2	2	4	6	0	0	114.3	112.4
Schultz Co.	1	1	2	3	0	1	112.8	100.5
O. M. Scott & Sons Co.	14	13	26	39	1	1	102.0	107.5
Sears, Roebuck & Co.	34	34	66	100	2	0	119.3	136.5
Sewerage Commission of Milwaukee	2	2	2	4	0	0	100.7	157.0
Shell Oil Co.	1	1	2	3	1	0	90.0	118.4
Sierra Chemical Co.	3	3	6	9	1	0	100.9	118.2
Smith-Douglas Division	27	27	51	78	1	1	109.2	129.9
The Specialty Manufacturing Co.	1	1	2	3	0	0	109.1	117.1
Stanford Seed Co.	1	1	2	3	1	0	94.2	105.0
Stern's Garden Products, Inc.	4	4	8	12	1	2	101.4	108.8
Stokle, Inc.	4	4	8	12	0	0	121.5	143.9
Swift Agricultural Chemicals	16	15	26	41	0	4	111.2	108.7
Swiss Farms, Inc.	6	6	12	18	0	0	108.3	116.2
Two Guys	9	9	18	27	1	6	104.7	106.0
Universal Chemical Co., Inc.	1	1	2	3	0	0	100.8	100.5
USS Agri-Chemical, Inc.	22	21	40	61	1	4	108.5	113.8
Vaughan's Seed Co.	1	1	2	3	0	1	100.0	92.5
Vigoro	4	4	8	12	1	0	99.0	127.2

Manufacturer	No. of Samples	No. of guarantees		Samples deficient		Average % of claims	
		N	P ₂ O ₅ +K ₂ O total	N	P ₂ O ₅ +K ₂ O	N	P ₂ O ₅ +K ₂ O
Walgren Tree Experts	2	2	4	0	0	101.5	135.6
Walker-Gordon Laboratory Co.	4	4	8	0	0	118.8	133.3
Warren's Turf Nursery	2	2	4	0	0	102.6	107.6
Andrew Wilson, Inc.	1	1	2	0	0	148.0	199.5
Wilson & George Myer & Co.	1	1	0	0	-	100.0	----
S. D. Woodruff & Sons, Inc.	1	1	2	0	0	109.6	103.5

SECONDARY AND MINOR ELEMENTS

Commercial Fertilizers					
No. of Samples	Element guaranteed	No. of guarantees	Guarantees deficient	Average % of claims	
Agrico Chemical Co.	Boron	3	2	39	
	Iron	1	0	137	
	Magnesium	5	1	180	
	Zinc	1	0	114	
Agriform International Chemicals, Inc.	Calcium	2	0	206	
	Iron	2	0	151	
	Sulfur	2	0	186	
Agway	Aluminum	1	0	125	
	Boron	20	2	124	
	Iron	4	1	188	
	Magnesium	6	0	339	
	Zinc	2	2	63	
Asgrow-Mandeville Co.	Boron	2	0	138	
	Calcium	2	0	182	
	Copper	1	0	104	
	Iron	1	0	772	
	Magnesium	2	0	431	
	Manganese	1	0	98	
	Sulfur	2	0	334	
Chevron Chemical Co.	Boron	5	1	78	
	Calcium	6	1	100	
	Iron	14	0	160	
	Magnesium	1	0	177	
	Manganese	2	1	80	
	Sulfur	7	2	147	
	Zinc	5	1	256	

	No. of Samples	Element guaranteed	No. of guarantees	Guarantees deficient	Average % of claims
Chilean Nitrate Sales Corp.	4	Sodium	4	1	97
Corenco Corp.	6	Iron Magnesium	4 2	0 0	153 100
Diamond Shamrock Chemical Co.	1	Iron	1	0	100
Elanco Products Co.	1	Iron	1	0	403
Encap Products Co.	1	Iron	1	0	108
The Espoma Co.	3	Iron	3	0	953
Faesy & Besthoff Corp.	17	Aluminum Iron	1 16	0 4	111 154
Federal Chemical Co.	7	Iron Magnesium	4 3	0 0	1224 161
Goulard-Olena, Inc.	1	Iron	1	0	380
The Great Atlantic & Pacific Tea Co.	2	Iron	2	1	85
Halstead Distributing Co.	1	Iron	1	0	173
Heritage House Products	8	Boron Chlorine Copper Iron Magnesium Manganese Sulfur Zinc	1 1 4 5 2 4 1 4	1 0 2 1 0 0 0 0	69 120 198 211 133 180 332 175

Commercial Fertilizers					11
A. H. Hoffman, Inc.	6	Boron Copper Iron Magnesium	1 1 6 1	1 0 0 1	37 720 146 70
Kerr-McGee Chemical Co.	4	Aluminum Magnesium	1 3	0 0	109 153
Lebanon Chemical Corp.	2	Iron	2	0	2527
Limestone Products Corp.	1	Calcium Iron Magnesium	1 1 1	0 0 0	96 175 135
McArdles Seed Co.	1	Iron	1	1	17
Nassau Garden, Inc.	9	Boron Calcium Copper Iron Manganese Zinc	1 2 3 8 3 3	1 0 1 0 0 1	0 999 375 1685 473 116
Nelsen Steel & Wire Co.	1	Iron	1	0	128
Old Fox Agricultural Sales, Inc.	2	Magnesium	2	0	259
Patco Products, Inc.	1	Iron	1	0	2480
Ross Daniels, Inc.	2	Iron	2	0	175
Sanford Seed Co.	2	Iron	2	0	1980
O. M. Scott & Sons Co.	1	Iron	1	0	221
Sears, Roebuck & Co.	11	Calcium	5	1	104

	No. of Samples	Element guaranteed	No. of guarantees	Guarantees deficient	Average % of claims
Sears, Roebuck & Co.		Chlorine	2	2	78
		Copper	1	1	46
		Iron	9	0	252
		Manganese	1	0	720
		Sodium	1	0	100
		Sulfur	1	0	116
		Zinc	1	0	620
Sewerage Commission of Milwaukee	1	Iron	1	0	150
Smith-Douglas Division		Boron	1	0	2200
	9	Calcium	4	0	148
		Chlorine	7	7	58
		Copper	1	0	160
		Iron	7	0	986
		Magnesium	1	0	99
		Manganese	1	0	1683
		Sodium	1	0	640
		Sulfur	5	1	106
		Zinc	1	0	240
Swift Agricultural Chemicals	5	Aluminum	1	0	111
		Iron	4	0	234
USS Agri-Chemical, Inc.	1	Iron	1	0	330
		Magnesium	1	0	263
Vigoro	1	Iron	1	0	395
Wilson & George Myer & Co.	1	Calcium	1	1	88

TONNAGES OF FERTILIZER MATERIALS AND MIXED
FERTILIZERS PURCHASED DURING THE PERIOD
OF JULY 1, 1970 - JUNE 30, 1971

		<u>Tonnage</u>
I.	Chemical Nitrogen	
	Ammonia, anhydrous	12
	Ammonium nitrate	288
	Ammonium sulfate	20
	Calcium nitrate	9
	Nitrate of soda	78
	Urea	2,854
	Urea-form	11
		3,272
II.	Organics	
	Castor pomace	63
	Cottonseed meal	4,904
	Dried blood	7
	Dried manures	2,626
	Fish meal	1
		7,601
III.	Phosphates	
	Bonemeal	139
	Calcium phosphate	332
	Diammonium phosphate	3
	Superphosphate, 20%	548
	Superphosphate, 46%	875
		1,897
IV.	Potash	
	Muriate of potash	2,787
	Nitrate of soda-potash	3
	Sulfate of potash-magnesia	23
	Potassium nitrate	7
		2,820
V.	Secondary and Micronutrients	
	Borax	17
	Iron sulfate	20
	Magnesium sulfate	2
		39
VI.	Mixed Fertilizers	
	Commercial mixtures	38,449
	Special and home mixtures	4,064
		42,513
	Total	58,142

MIXED FERTILIZER DISTRIBUTION
JULY 1, 1970 - JUNE 30, 1971

<u>Grade</u>	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>
0-15-30	330	10-20-10	384
0-20-20	62	10-20-20	765
5-10- 5	1,134	12- 4- 8	184
5-10-10	2,502	15-10-10	3,193
8-10-10	3,467	15-15-15	684
10- 5- 5	422	16- 8- 8	139
10- 6- 4	3,517	20-10- 5	333
10- 8- 8	145	23- 7- 7	1,957
10-10-10	5,894	25- 5-10	62
		Miscellaneous*	13,275
		Total	38,449

*Small amounts or reported by less than three manufacturers.

THE CONNECTICUT
AGRICULTURAL EXPERIMENT STATION
NEW HAVEN, CONNECTICUT 06504

Paul E. Waggoner
Director

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